## IN THE CLAIMS

Please amend the claims as follows.

1-4. (Canceled).

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5. (Currently amended) A method of stress testing an integrated circuit, comprising: capturing a first external bus transaction,

[[when]] if a request type of the transaction matches a triggering condition, generating a data request, and

generating a harassing bus transaction based on the data request.

- 6. (Original) The method of claim 5, wherein the first external bus transaction and the new external bus transaction are generated by the same integrated circuit.
- 7. (Original) The method of claim 5, wherein the data request includes an address contained in the first external bus transaction.
- 8. (Original) The method of claim 5, wherein the external bus transaction includes a first cache line address in a system memory and the data request includes a second cache line address adjacent to the first cache line address.
- 9. (Currently amended) The method of claim 5, wherein the external bus transaction includes an address directed to a first portion of a cache line in a system memory and the data request includes a second eache line address directed to a second portion of the cache line.
- 10. (Original) The method of claim 5, wherein the harassing bus transaction is generated before the first external bus transaction concludes.
- 11-17. (Canceled).
- 18. (Currently amended) A stress testing method for a computer system, comprising: counting a number of external bus cycles that occur without onset of a new transaction on the external bus,

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[[when]] if the number meets a predetermined threshold, generating a harassing transaction on the external bus.

19. (Original) The method of claim 18, wherein the harassing transaction includes an address from a previous bus transaction having been modified to refer to an adjacent cache line.

Please add the following new claims:

- .20. (New) An integrated circuit, comprising:
  - a processor core, the processor core to operate in the domain of a first clock,
- a data request pipeline having an external bus interface that is in communication with an external bus, the external bus to operate in the domain of a second clock, where the second clock is different from the first clock, and
- a validation FUB having an input coupled to the external bus interface of the data request pipeline, the validation FUB to operate in the domain of the first clock.
- 21. (New) The integrated circuit of claim 20, wherein the first clock is faster than the second clock.
- 22. (New) The integrated circuit of claim 20, wherein the validation FUB further comprises:
  - a transaction latch coupled to the external bus interface, and
- a request library in communication with the transaction latch and having an output coupled to the data request pipeline.
- 23. (New) The integrated circuit of claim 22, further comprising an address manipulator coupled to the transaction latch and to the request library.
- 24. (New) An integrated circuit, comprising:
  - a processor core,
- a bus sequencing unit in communication with the processor core and an external bus, the bus sequencing unit further comprising:

an arbiter to receive a data request from an external bus transaction,

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a cache memory to store data, and

a transaction queue in communication with the arbiter and the cache memory to process the data request, and

a validation FUB in communication with the bus sequencing unit and the external bus, the validation FUB to receive the data request from the arbiter to generate a second data request when the data request matches a triggering condition.

- 25. (New) The integrated circuit of claim 24, where an output of the validation FUB is coupled to the arbiter.
- 26. (New) The integrated circuit of claim 25, wherein the arbiter processes the data request from the external bus transaction and the second data request as independent transactions.
- 27. (New) An integrated circuit, comprising:

a processor core,

a bus sequencing unit in communication with the processor core and an external bus, the bus sequencing unit further comprising:

an arbiter to receive a data request,

a cache memory to output a hit/miss signal in response to the data request,

a transaction queue in communication with the arbiter and the cache memory to process the data request, and

a validation FUB in communication with the bus sequencing unit and the external bus, the validation FUB to receive the hit/miss signal from the cache memory to generate a second data request when the hit/miss signal matches a triggering condition.

- 28. (New) The integrated circuit of claim 27, wherein the triggering condition is whether requested data is present in the cache memory.
- 29. (New) A diagnostic method for an integrated circuit, comprising: detecting an onset of a first transaction on an external bus, reading an address of the first transaction from the external bus, and

in response to the detected transaction, issuing a read request in a second transaction on the external bus, the read request directed to the same address as the first transaction.



- 30. (New) The method of claim 29, wherein an onset of the second transaction occurs before the first transaction concludes.
- 31. (New) The method of claim 29, further comprising issuing a plurality of read requests directed to addresses of subsequent transactions detected on the external bus.
- 32. (New) The method of claim 29, wherein the first and second transactions are issued by the same integrated circuit.
- 33. (New) A method, comprising, in a diagnostic mode of the integrated circuit: detecting a plurality of transactions posted on an external bus, reading addresses of the transactions, and posting a harassing transaction on the external bus for each detected transaction, each harassing instruction including the address of the respective detected transaction.
- 34. (New) The method of claim 33, wherein an onset of the harassing transaction occurs before the respective detected transaction concludes.
- 35. (New) The method of claim 33, wherein the detected and harassing transactions are issued by the same integrated circuit.
- 36. (New) A method of testing an integrated circuit, comprising:
  storing a request type in a register,
  observing a transaction on an external bus, and
  when the request type of the external bus transaction matches the request type stored in
  the register, generating a data request on the external bus.
- 37. (New) the method of claim 36, further comprising generating a harassing bus transaction based on the data request.

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